

## **PPL13 PROJECT NOMINEE FACT SHEET**

March 12, 2003

### **Project Name and Number**

Oyster Bayou Terracing

### **Coast 2050 Strategy**

Coast-wide Strategies: Terracing; Vegetative Planting.

Regional Strategies: Dedicated dredging or beneficial use of sediment for wetland creation or protection.

### **Project Location**

Region 4; Calcasieu-Sabine Basin; Cameron Parish; 2.5 miles west of Cameron.

### **Problem**

Increased salinities within the project area have caused interior marsh breakup. As ponds have coalesced, water bodies have grown which exacerbated marsh breakup from wave action.

### **Goals**

Create emergent marsh; reduce wave energy; establish submerged aquatic vegetation; increase fisheries habitat.

### **Proposed Solution**

Construct approximately 36,000 linear feet of earthen terraces and plant with Smooth cord throughout the project area. Earthen terraces would have approximate 10' crowns with a 1:4 side slope yielding 22 net-acres above water. The expected area benefited is approximately 2612 acres.

### **Preliminary Project Benefits**

Earthen terraces would have approximate 10' crowns with a 1:4 side slope yielding 22 net-acres above water. Approximately 1301 acres of marsh would be protected reducing shoreline erosion by 50-74%. The project would increase the colonization of submerged aquatic vegetation by reducing wave fetch.

### **Compatibility with Coast 2050 Criteria**

#### Wetland Elevation/Sustainability

The terraces protect existing wetlands from shoreline erosion. It is expected that 250 acres of accreted wetlands will be sustained over the 20-year project life.

#### Ecosystem Influence Area

The project would benefit approximately 2612 acres of lake bottoms and adjacent marsh.

### Structural Framework

The project is designed to help protect lake rims. Approximately 60% of the ecosystem influence area would be benefited for more than 20 years based on the created acres and maintenance event.

### Infrastructure

The project would not have a net impact on critical or non-critical infrastructure.

### Organism and Material Linkages

The project allows a natural level of exchange of organisms and materials consistent with the sustainability of the ecosystem.

### Coast 2050 Habitat Objectives

Marshes in the project area are classified as brackish by Chabreck '88. The habitat objective for the majority of the ecosystem influence area is intermediate. Therefore, the project will not achieve the coast 2050 habitat objective for most of ecosystem influence area.

### Project Synergy

The project would not provide a synergistic effect with other approved and/or constructed CWPPRA projects.

### **Preliminary Construction Costs**

\$1,000,000 (construction + 25% contingency).

### **Preparer of Fact Sheet**

John Foret, National Marine Fisheries Service, 337/291-2107; [john.foret@noaa.gov](mailto:john.foret@noaa.gov)